

Flood Control Project Maintenance
2016 Structure Summary Report
Overall Unit and Item Ratings

Sacramento County

American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A

American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	N
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A

Flood Control Project Maintenance
2016 Structure Summary Report
Overall Unit and Item Ratings

Sacramento County (cont.)

Mayhew Drain Closure Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	M
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
Unit Cover Sheet
2016 Pumping Plant Inspection Results

Sacramento County

Pumping Plant
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Pumping Plant Rating	A
Date of Inspection	6/22/2016
DWR Inspector	Maksim Khashchuk
Accompanied By	Manolo Ramirez Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Operating Log			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_1				
Action/Comments					
Inspector Comments: This facility is under construction. The maintenance log is going to be updated and is not currently present on site at the pump station.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Operation & Maintenance Manual			38.584600 °	38.584600 °	
				-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_2					
Action/Comments						
Inspector Comments: This facility is under construction. O&M manuals are not currently on site but are in the same off site location as the Operating Log.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	3	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Plant Building			38.584600 °	38.584600 °	
				-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_3					
Action/Comments						
Inspector Comments: This facility is under construction. Plant building appears to be in sound structural condition.						

Photo 1 of 2 : ST_2016_NA0050_13_3_20160627_00024.jpg



View of the pump building.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	3 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Plant Building			38.584600 °	38.584600 °	
				-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_3					
Action/Comments						
Inspector Comments: This facility is under construction. Plant building appears to be in sound structural condition.						

Photo 2 of 2 : ST_2016_NA0050_13_3_20160627_00026.jpg



Another view of the pump building.

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Communications			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_4				
Action/Comments					
Inspector Comments: This facility is under construction. Cellular service is available to pump station personnel.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Safety			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_5				
Action/Comments					
Inspector Comments: This facility is under construction. No apparent safety hazards observed.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start		End
Item	Cranes			38.584600 °		38.584600 °
				-121.421417 °		-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_6					
Action/Comments						
Inspector Comments: This facility is under construction. Cranes appear to be in operational condition.						

Photo 1 of 1 : ST_2016_NA0050_13_6_20160627_00027.jpg



View of the cranes inside the building.

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pumps			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_7				
Action/Comments					
Inspector Comments: This facility is under construction. Pumps appear to be properly maintained and in proper working order.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Power			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_8				
Action/Comments					
Inspector Comments: This facility is under construction. Backup power generator is shared with the wastewater facility.					

Photo 1 of 1 : ST_2016_NA0050_13_8_20160627_00028.jpg



View of the future location of the power generator.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Motors, Engines, Fans & Gear Reducers			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_10				
Action/Comments					
Inspector Comments: This facility is under construction. All items appear to be operational and properly maintained.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pump Control Systems			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_11				
Action/Comments					
Inspector Comments: This facility is under construction. These items appear to be operational and properly maintained.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sumps/Wet Well			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_12				
Action/Comments					
Inspector Comments: This facility is under construction. Sumps and wet wells are free of sediment and debris.					

Photo 1 of 1 : ST_2016_NA0050_13_12_20160627_00029.jpg



Typical view of the wet well.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_13				
Action/Comments					
Inspector Comments: This facility is under construction. Trash racks are in place, properly maintained and clear of any debris.					

Photo 1 of 3 : ST_2016_NA0050_13_13_20160627_00033.jpg



View of the trash racks at the inlet.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2016_NA0050_13_13_20160627_00034.jpg



Another view of the trash racks at the inlet.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2016_NA0050_13_13_20160627_00030.jpg



View of the gate trash racks at the inlet.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_14				
Action/Comments					
Inspector Comments: This facility is under construction. Trash rake appears to be properly maintained and in operational condition.					

Photo 1 of 1 : ST_2016_NA0050_13_14_20160627_00035.jpg



Close up photo of trash rake, note cleanliness and free of debris.

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sluice / Slide Gates			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_15				
Action/Comments					
Inspector Comments: This facility is under construction. Slide gates appear to be in good operational condition.					

Photo 1 of 1 : ST_2016_NA0050_13_15_20160615_00017.jpg



View of the slide gate, typical.

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_16				
Action/Comments					
Inspector Comments: This facility is under construction. Electric gate operators appear to be in proper operating condition.					

Photo 1 of 2 : ST_2016_NA0050_13_16_20160627_00036.jpg



View of the gate operators

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	16 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start		End
Item	Electric Gate Operators			38.584600 °		38.584600 °
				-121.421417 °		-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_16					
Action/Comments						
Inspector Comments: This facility is under construction. Electric gate operators appear to be in proper operating condition.						

Photo 2 of 2 : ST_2016_NA0050_13_16_20160627_00037.jpg



View of the gravity flow gate operator.

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_17				
Action/Comments					
Inspector Comments: This facility is under construction. Manual gate operators appear to be in good working condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_18				
Action/Comments					
Inspector Comments: This facility is under construction. Exposed metal parts are painted and protected from corrosion.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_19				
Action/Comments					
Inspector Comments: This facility is under construction. Flap gates appear to be properly maintained and operational.					

Photo 1 of 2 : ST_2016_NA0050_13_19_20160627_00039.jpg



View of the low flow flap gate.

LM Start	0.00	Rating **	A	Issue No.	19 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2016_NA0050_13_19_20160627_00038.jpg



View of the flap gates on the waterside.

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_20				
Action/Comments					
Inspector Comments: This facility is under construction. Separate closure structures other than sluice gates are not present.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_21				
Action/Comments					
Inspector Comments: This facility is under construction. Area is enclosed by adequate security fencing.					

Photo 1 of 2 : ST_2016_NA0050_13_21_20160615_00022.jpg



View of the security fencing around the pumping facility.

LM Start	0.00	Rating **	A	Issue No.	21 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2016_NA0050_13_21_20160615_00023.jpg



View of the security fencing.

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_22				
Action/Comments					
Inspector Comments: This facility is under construction. Pipes do not appear to have breaks, corrosion, holes or cracks that would be a source of water leakage.					

Photo 1 of 2 : ST_2016_NA0050_13_22_20160627_00041.jpg



View of the wall displaced about 1.5 inches.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	22 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Intake and Discharge Pipes			38.584600 °	38.584600 °	
				-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_22					
Action/Comments						
Inspector Comments: This facility is under construction. Pipes do not appear to have breaks, corrosion, holes or cracks that would be a source of water leakage.						

Photo 2 of 2 : ST_2016_NA0050_13_22_20160627_00040.jpg



Another view of the displaced wall. This issue does not appear to impede the designed operation of the pumping plant.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2016 Pumping Plant Inspection Results****Sacramento County**

Pumping Plant
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Pumping Plant Rating	A
Date of Inspection	6/22/2016
DWR Inspector	Maksim Khashchuk
Accompanied By	Manolo Ramirez Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Operating Log			38.569692 °	38.569692 °	
				-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_1					
Action/Comments						
Inspector Comments: Operating log is kept on site and is being used and updated.						

Photo 1 of 1 : ST_2016_NA0050_14_1_20160627_00015.jpg

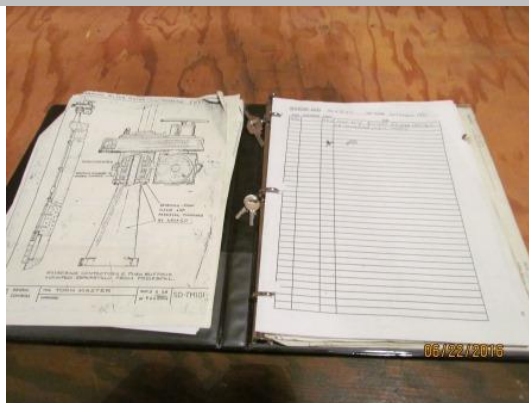


Photo shows operating log on site.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_2				
Action/Comments					
Inspector Comments: O & M Manual is kept on site, posted instructions are also written on dry erase board.					

Photo 1 of 1 : ST_2016_NA0050_14_2_20160615_00002.jpg

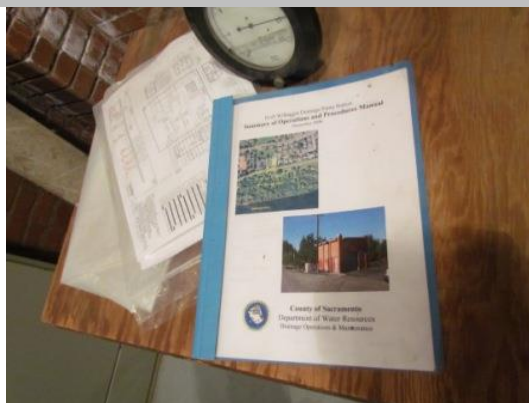


Photo shows O&M manual on site.

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Plant Building			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_3				
Action/Comments					
Inspector Comments: Building appears to be in sound structural condition.					

Photo 1 of 3 : ST_2016_NA0050_14_3_20160627_00016.jpg



View of the pumping plant building.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	3 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Plant Building			38.569692 °	38.569692 °	
				-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_3					
Action/Comments						
Inspector Comments: Building appears to be in sound structural condition.						

Photo 2 of 3 : ST_2016_NA0050_14_3_20160627_00027.jpg



View of the wet wells and plant building.

LM Start	0.00	Rating **	A	Issue No.	3 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2016_NA0050_14_3_20160627_00028.jpg



View of the retaining wall displaced about 4 inches from the plant building. This issue does not appear to impede the designed pumping plant operation.

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Communications			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_4				
Action/Comments					
Inspector Comments: Telephone on site and cellular service is available to the operators as well as radio communication in the operator's vehicle.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Safety			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_5				
Action/Comments					
Inspector Comments: No safety hazards are visible.					

Photo 1 of 1 : ST_2016_NA0050_14_5_20160627_00017.jpg



View of the fire extinguisher mounted inside the pump building.

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Cranes			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_6				
Action/Comments					
Inspector Comments: Crane appears to be in good working condition.					

Photo 1 of 1 : ST_2016_NA0050_14_6_20160627_00018.jpg



View of the crane above the pumps inside the building.

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pumps			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_7				
Action/Comments					
Inspector Comments: Pumps appear to be properly maintained and operational.					

Photo 1 of 1 : ST_2016_NA0050_14_7_20160627_00019.jpg



View of the pump motors.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Power			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_8				
Action/Comments					
Inspector Comments: No visible deficiencies, backup generator is on site.					

Photo 1 of 1 : ST_2016_NA0050_14_8_20160627_00020.jpg



View of the backup generator.

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Motors, Engines, Fans & Gear Reducers			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_10				
Action/Comments					
Inspector Comments: Items appear to be well maintained and operational.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Pump Control Systems			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_11				
Action/Comments					
Inspector Comments: Controls appear well maintained and free of corrosion.					

Photo 1 of 2 : ST_2016_NA0050_14_11_20160627_00021.jpg



View of the manual pump controls switches.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	11 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Pump Stations			GPS Latitude/Longitude		
				Start	End	
Item	Pump Control Systems			38.569692 °	38.569692 °	
				-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_11					
Action/Comments						
Inspector Comments: Controls appear well maintained and free of corrosion.						

Photo 2 of 2 : ST_2016_NA0050_14_11_20160627_00022.jpg



View of the pump controls panel.

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sumps/Wet Well			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_12				
Action/Comments					
Inspector Comments: Wet well is clear of debris.					

Photo 1 of 1 : ST_2016_NA0050_14_12_20160627_00023.jpg



View of the wet well.

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_13				
Action/Comments					
Inspector Comments: Trash rack is in place and free of debris.					

Photo 1 of 1 : ST_2016_NA0050_14_13_20160627_00024.jpg



Photo shows properly maintained trash rack free of debris.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_14				
Action/Comments					
Inspector Comments: There is no mechanical trash rake at this facility.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sluice / Slide Gates			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_15				
Action/Comments					
Inspector Comments: Slide gates appear to be properly maintained.					

Photo 1 of 1 : ST_2016_NA0050_14_15_20160615_00011.jpg



View of the slide gate.

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_16				
Action/Comments					
Inspector Comments: Electric gate operators appear to be properly maintained and in proper working order.					

Photo 1 of 1 : ST_2016_NA0050_14_16_20160627_00025.jpg



View of the gate controls.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_17				
Action/Comments					
Inspector Comments: Manual gate controls appear to be properly maintained and look to be operational.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_18				
Action/Comments					
Inspector Comments: Other metallic items are painted to protect from corrosion.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates are visible and appear to be in working order, there was no flow to test for leakage.					

Photo 1 of 1 : ST_2016_NA0050_14_19_20160627_00026.jpg



View of the flap gates.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2015_20				
Action/Comments					
Inspector Comments: Does not apply to this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_21				
Action/Comments					
Inspector Comments: Security fencing encloses standby generator. Building is securely locked.					

Photo 1 of 1 : ST_2016_NA0050_14_21_20160615_00014.jpg



View of the security fencing.

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_22				
Action/Comments					
Inspector Comments: No visible defects in pipes.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2016 Structure Inspection Results

Sacramento County

Structure
Mayhew Drain Closure Structure

Structure Rating	A
Date of Inspection	6/22/2016
DWR Inspector	Maksim Khashchuk
Accompanied By	Manolo Ramirez Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2016_1				
Action/Comments					

Photo 1 of 1 : ST_2016_NA0050_220_1_20160623_00014.jpg



General view of the closure structure, facing upstream.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_2				
Action/Comments					
Inspector Comments: No obstructive vegetation has been observed at the time of inspection.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Shoaling / Sedimentation			38.569898 °	38.569898 °	
				-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_3					
Action/Comments						
Inspector Comments: No shoaling or sedimentation observed.						

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_4				
Action/Comments					
Inspector Comments: No erosion or bank instability observed.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_5				
Action/Comments					
Inspector Comments: The channel is concrete lined and there is no need for revetment at this time.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_6				
Action/Comments					
Inspector Comments: No encroachments present at the time.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_7				
Action/Comments					
Inspector Comments: Structure inlet and outlet are clear of debris and appear to function as intended.					

Photo 1 of 3 : ST_2016_NA0050_220_7_20160615_00001.jpg



View of the structure inlet.

LM Start	0.00	Rating **	A	Issue No.	7 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2016_NA0050_220_7_20160623_00008.jpg



View of the inlet channel.

LM Start	0.00	Rating **	A	Issue No.	7 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2016_NA0050_220_7_20160623_00009.jpg



View of the outlet channel.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_8				
Action/Comments					
Inspector Comments: No significant cracking or breaks observed.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Metal Pipes			38.569898 °	38.569898 °	
				-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_9					
Action/Comments						
Inspector Comments: All metal pipes appear to be in good working condition.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_10				
Action/Comments					
Inspector Comments: There are no trash racks installed at this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	M	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_11				
Action/Comments					
Inspector Comments: Two of the four flap gates were propped open by debris.					

Photo 1 of 2 : ST_2016_NA0050_220_11_20160623_00010.jpg



View of a flap gate with debris propping the gate open.

LM Start	0.00	Rating **	M	Issue No.	11 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2016_NA0050_220_11_20160623_00011.jpg



Another view of a flap gate with debris propping the gate open.

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_12				
Action/Comments					
Inspector Comments: Slide gates appear to be in proper working order.					

Photo 1 of 1 : ST_2016_NA0050_220_12_20160615_00005.jpg



View of a slide gate.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_13				
Action/Comments					
Inspector Comments: Electric gate operators appear to be in working condition with manual controls installed.					

Photo 1 of 1 : ST_2016_NA0050_220_13_20160623_00012.jpg



View of the gate mechanism controls.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_14				
Action/Comments					
Inspector Comments: Gate operation controls have both automatic and manual system installed.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_15				
Action/Comments					
Inspector Comments: Concrete surfaces appear to be in good condition.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Tilting / Settlement	38.569898 °		38.569898 °	
		-121.353360 °		-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_16				
Action/Comments					
Inspector Comments: Concrete surfaces appear to be intact and no significant displacement observed.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_17				
Action/Comments					
Inspector Comments: Structure foundation appears to be in good condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_18				
Action/Comments					
Inspector Comments: The facility appears to have adequate security.					

Photo 1 of 1 : ST_2016_NA0050_220_18_20160623_00013.jpg



View of the security fencing around the facility.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_19				
Action/Comments					
Inspector Comments: Does not apply to this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t _ 2014_20				
Action/Comments					
Inspector Comments: There are no trash rakes at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Other Metallic Items			38.569898 °	38.569898 °	
				-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t _ 2014_21					
Action/Comments						
Inspector Comments: All metallic surfaces appear to be free of rust and in good condition.						

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2016

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		06/22/2016 06/22/2016	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_22				
Action/Comments					
Inspector Comments: All monolith joints appear to be in good condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Safety			38.569898 °	38.569898 °	
				-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_23					
Action/Comments						
Inspector Comments: Safety equipment for a person to evacuate the channel in case of a fall are installed. All other safety features appear to be adequate.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_24				
Action/Comments					
Inspector Comments: O&M Manual is available at the office.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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